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NOTICE OF ALLOWANCE AND FEE(S) DUE

85332

7590

06/28/2010

Arnold & Porter LLP (23032) 555 Twelfth St., N.W. Attn: IP Docketing Dept. Washington, DC 20004-1206 EXAMINER

SHIAO, REI TSANG

ART UNIT PAPER NUMBER

1628

DATE MAILED: 06/28/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,134	05/30/2007	Mark D. Erion	2358.0080002/RWE/RAS	9214

TITLE OF INVENTION: NOVEL PHOSPHORUS-CONTAINING THYROMIMETICS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance o herwise in Block 1, by (rders and notification and specifying a new co	of m orresp	naintenance fees will be condence address; and	e mailed to the current of or (b) indicating a separate	correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 85332 7590 06/28/2010					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
					Certific	nte of Mailing or Transn	nission	
Arnold & Porto 555 Twelfth St., Attn: IP Docketi		l her State addro trans	deposited with the United t class mail in an envelope above, or being facsimile te indicated below.					
Washington, DC		ſ	(Depositor's name)					
							(Signature)	
							(Date)	
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nonprovisional	NO	\$1510	\$300	_	\$0	\$1810	09/28/2010	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
SHIAO, R	EI TSANG	1628	514-140000					
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-C Number is required.								
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Com	A TO BE PRINTED ON iffied below, no assignee pletion of this form is NO	data will appear on th T a substitute for filing	e pa an a	tent. If an assignee is assignment. and STATE OR COUL	VTRY)	cument has been filed for	
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Corpor	ation or other private gro	up entity Government	
4a. The following fee(s) Issue Fee			A check is enclose	ed.		eviously paid issue fee s	hown above)	
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	itus (from status indicate		b. Applicant is no	lone	er claiming SMALL E	NTITY status. See 37 CF	R 1.27(g)(2).	
NOTE: The Issue Fee an	d Publication Fee (if req		ed from anyone other th	_			e assignee or other party in	
Authorized Signature					Date			
Typed or printed name								
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The information of U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain 1.14. This collection is 7 depending upon the in 1se Chief Information Of 1se COMPLETED FORMS	or re s esti ndivi ffices S TO	etain a benefit by the pumated to take 12 minu dual case. Any comme t, U.S. Patent and Trad THIS ADDRESS. SE	ablic which is to file (and tes to complete, including ents on the amount of tin emark Office, U.S. Depa ND TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/580,134	05/30/2007	Mark D. Erion	2358.0080002/RWE/RAS	9214		
85332 75	85332 7590 06/28/2010			EXAMINER		
Arnold & Porter	LLP (23032)	SHIAO, RI	EI TSANG			
555 Twelfth St., N.		ART UNIT	PAPER NUMBER			
Attn: IP Docketing Washington, DC 20		1628 DATE MAILED: 06/28/2010				
washington, DC 2	3004-1200					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 161 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 161 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/580,134	ERION ET AL.				
Notice of Allowability	Examiner	Art Unit				
	DEL TOANO OLUAO	4000				
	REI-TSANG SHIAO	1628				
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communi IGHTS. This application is sub-	nis application. If not included cation will be mailed in due cou	ırse. THIS			
1. X This communication is responsive to <u>amendment filed on some</u>	<u>June 04, 2010</u> .					
2. The allowed claim(s) is/are 232 and 241-255, now are 1-10	<u>6</u> .					
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or	(f).				
 Certified copies of the priority documents have 	e been received.					
2. Certified copies of the priority documents have	been received in Application	No				
3. Copies of the certified copies of the priority do	cuments have been received i	n this national stage applicatior	n from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requir	rements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date	-	,				
(b) ☐ including changes required by the attached Examiner's		the Office action of				
Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Info	mal Patent Application				
 Induce of References Cited (PTO-092) Induce of Preferences Cited (PTO-092) Induce of References Cited (PTO		* *				
2. I Notice of Dialiperson's Faterit Diawing Review (PTO-946)	6. ☐ Interview Sun Paper No./M	ail Date				
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Ai	mendment/Comment				
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's St	atement of Reasons for Allowa	nce			
of Biological Material	9.					
/REI-TSANG SHIAO /						
Primary Examiner, Art Unit 1628						
•						

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DETAILED ACTION

1. Amendment of claim 232, cancellation of claims 1-82, 84-99, 101-231, and 233-240 and a terminal disclaimer in the amendment filed on June 04, 2010 is acknowledged. Claims 83, 100, 232 and 241-255 are pending in the application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Milan M. Vinnola on June 15, 2010. The application has been amended as follows:

Reasons for Allowance

Delete claims 83 and 100.

3. Since the variable R4 of formula (VIII) does not represent aryl, therefore the instant compounds of formula (VIII) are distinct from Ryono et al. '288. The rejection of claims 232 and 241-255 under 35 U.S.C. 102(a) or 102(e) over Ryono et al. '288 has been overcome in the amendment filed on June 04, 2010. Since the instant compounds of formula (VIII) do not contain a subject matter when the variable G is O and the variable X is $-P(O)(OH)_2$ or $-P(O)(O lower alkyl)_2$, therefore the instant compounds of

formula (VIII) are distinct from Li et al. '687. The rejection of claims 232 and 241-255 under 35 U.S.C. 103(a) over Li et al. '687 has been overcome in the amendment filed on June 04, 2010.

- 4. Since the terminal disclaimer against US 7,514,419 has been filed to the Office, the rejection of claims 232 and 241-255 under the obviousness-type double patenting over US 7,514,419 has been overcome in the amendment filed on June 04, 2010. Since the provisional rejection of claims 232 and 241-255 over co-pending application No. 11/816,774 is the only remaining rejection in the case, the provisional rejection of claims 232 and 241-255 under the obviousness-type double patenting has been withdrawn herein.
- 5. Claims 232 and 241-255 are neither anticipated nor rendered obvious over the art of record, and therefore are allowable. A suggestion for modification of references to obtain the instant compounds has not been found. Claims 232 and 241-255 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rei-tsang Shiao whose telephone number is (571) 272-0707. The examiner can normally be reached on 8:30 AM - 5:00 PM. If attempts to

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reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, can be reached on (571)272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/REI-TSANG SHIAO / Primary Examiner, Art Unit 1628